

DMU-Toolkit DATA SHEET: DMU.Doc3D

Product visualization in technical documentation

DMU.Doc3D is a module for product visualization in technical documentation. The visualization module is designed in such a way that 3D CAD data can be imported directly from the PDM system via an interface which can be individually customized. The diverse data views (PDM product structure and bill of material structure) are thereby also interlinked and integrated via so-

called “mapping”. The CAD models can subsequently be processed easily and quickly with **techniques which have been tried and tested in practical operation**. This will result in photo-realistic illustrations which, depending on the configuration of the interface, can in turn be integrated directly and automatically into the technical documentation.

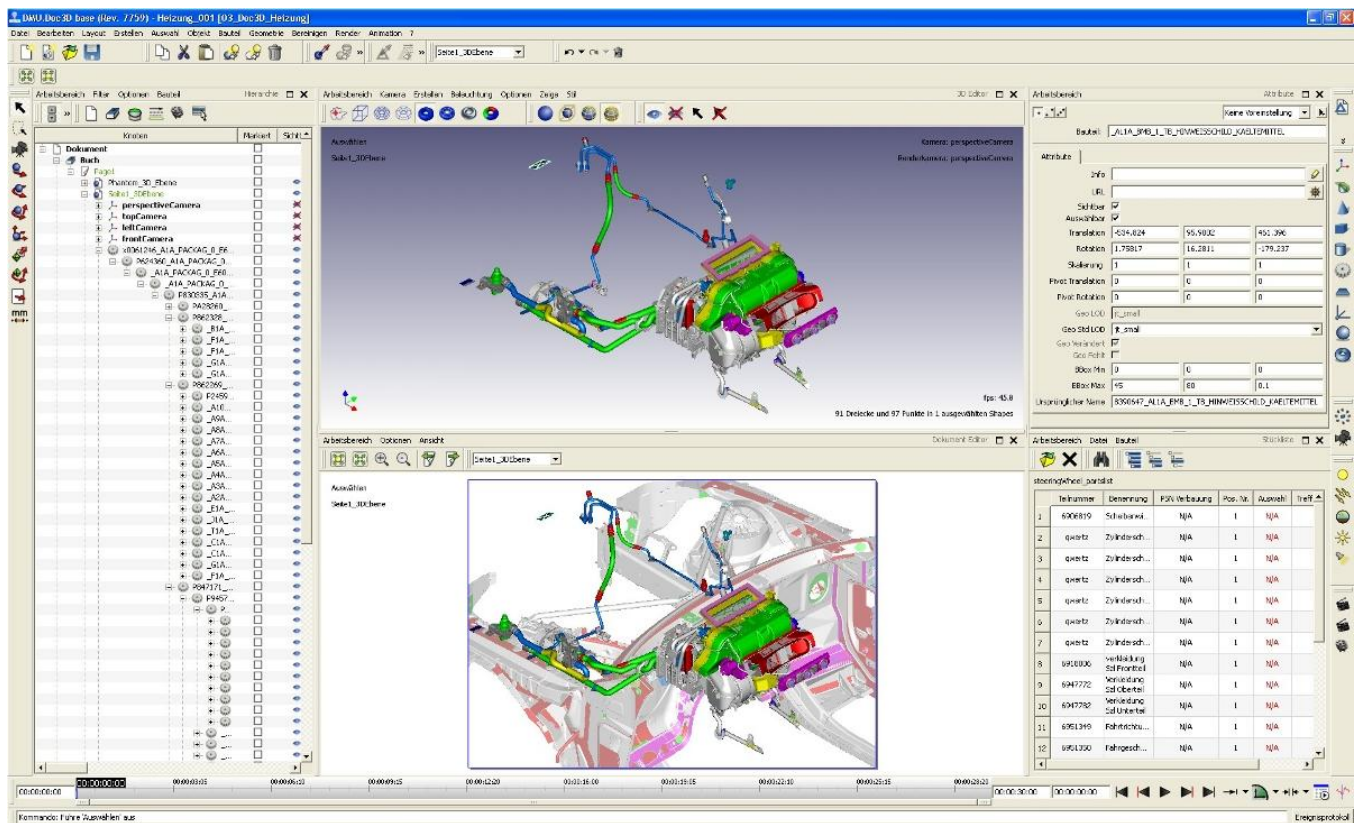


Illustration 1: User interface DMU.Doc3D module

DMU.Doc3D is the answer to the question asked in the automobile industry which is becoming increasingly relevant. The question is: **How can the available CAD data be utilized efficiently and also be utilized in sectors of a company other than the development sector?** Possible sectors for the utilization of this CAD data are the sales, marketing and service departments. These sectors require comprehensive pictorial material in order to be able to present new products in the

respective information material. It is often the case that a given product is not yet available in a physical form at the time required for the generation of pictorial material. The components must therefore be available as an alternative in the form of a digital product, from which photo-realistic pictures can in turn be generated. This is the exact point at which the **integration solution** with the DMU.Doc3D module takes over.

Selected features

Define individual layouts

- Define individual layouts by coordinating and selecting of various user-defined working areas
- Memorize adapted layouts and trigger over shortcuts
- Customize layouts quickly and easily on several workflows

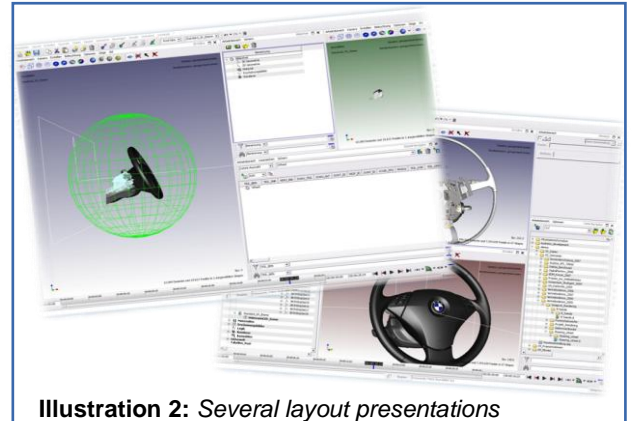


Illustration 2: Several layout presentations

Comfortable data processing

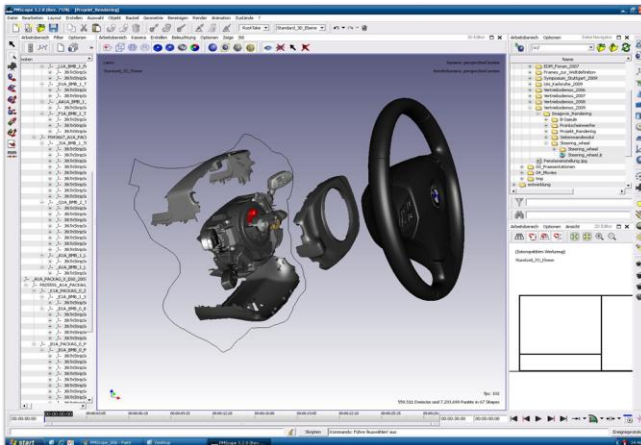


Illustration 3: Freehand lasso feature

- Assembly selection about several views:
 - show/no show
 - pick/no pick
- Assembly selection about several levels of detail:
 - Modules
 - Assemblies
 - Model structure
 - Triangles
- Comfortable model selection:
 - Freehand lasso selection at 3D context

Working layer concept

The multi-level 2D / 3D layer concept facilitates the flexible depiction of very diverse requirements. For better illustration, a “3D phantom level” can, for example, be

inserted, into which a partially transparent environment model is inserted. Or alternatively, captions can be added on a 2D level.

Benefit for the Client

The visualization solution with the DMU.Doc3D module can be integrated easily into the client's system architecture and utilizes the available CAD design data in an efficient manner. That is to say, that in comparison to a

manually newly designed pictorial graphic representation, the utilization of the available 3D design data considerably reduces the time and work required for the creation of pictorial material.

Contact Information

Further details can be found in our comprehensive information material and on our website (<http://www.teraport-engineering.com>). You can also contact us direct at the following address.

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